

CLAIMS

- 1 1. A service parameter message comprising:
2 a service identifier, for identifying a label for broadcast content on an
3 associated broadcast channel; and
4 quality indicator information, for indicating at least one value for a measure
5 of quality for the associated broadcast channel.
- 1 2. A service parameter message according to claim 1, wherein the quality
2 indicator information comprises:
3 a signal-to-noise ratio (SNR) threshold.
- 1 3. A service parameter message according to claim 2, wherein the SNR
2 threshold is a minimum threshold for indicating minimum acceptable quality.
- 1 4. A service parameter message according to claim 2, wherein the quality
2 indicator information further comprises:
3 a data to pilot ratio (D2P).
- 1 5. A service parameter message according to claim 1, wherein the quality
2 indicator information comprises:
3 a pilot signal-to-noise ratio (C/I_{PICH}) threshold.
- 1 6. A service parameter message according to claim 5, wherein the C/I_{PICH}
2 threshold is a target threshold for indicating acceptable quality.

- 1 7. A quality table comprising:
 - 2 a service identifier field, for identifying a label for broadcast content on a
 - 3 broadcast channel, having at least one element; and
 - 4 a quality indicator field, for indicating at least one value for a measure of
 - 5 quality for the broadcast channel associated with the at least one element.

- 1 8. A quality table according to claim 7, wherein the at least one value for a
2 measure of quality for the broadcast channel comprises:
 - 3 a signal-to-noise ratio (SNR) threshold; and
 - 4 a data to pilot ratio (D2P).

- 1 9. A quality table according to claim 7, wherein the at least one value for a
2 measure of quality for the broadcast channel comprises:
 - 3 a pilot signal-to-noise ratio (C/I_{pilot}) threshold.

- 1 10. A method for estimating wireless broadcast service quality on a broadcast
2 channel comprising the steps of:
3 receiving a service parameter message with a service identifier associated
4 with a broadcast channel;
5 determining a quality indicator threshold from the service parameter
6 message;
7 measuring a quality indicator to form a calculated quality indicator; and
8 comparing the calculated quality indicator to the quality indicator
9 threshold.
- 1 11. A method according to claim 10 wherein the step of determining comprises:
2 extracting quality indicator threshold from the service parameter message.
- 1 12. A method according to claim 11 wherein the step of extracting comprises:
2 obtaining a signal-to-noise ratio (SNR) threshold and a data to pilot ratio
3 (D2P).
- 1 13. A method according to claim 12, wherein the step of measuring comprises:
2 measuring a pilot signal-to-noise ratio (C/I_{PICH}) to form a calculated quality
3 indicator " E_b/N_t " by multiplying C/I_{PICH} by a spreading factor S and the D2P.
- 1 14. A method according to claim 13 wherein the step of comparing comprises:
2 determining if the E_b/N_t is less than the SNR threshold.
- 1 15. A method according to claim 11 wherein the step of extracting comprises:
2 obtaining a pilot signal-to-noise ratio (C/I_{PICH}) threshold.
- 1 16. A method according to claim 15, wherein the step of measuring comprises:
2 measuring a pilot signal-to-noise ratio (C/I_{PICH}) to form a calculated quality
3 indicator "measured C/I_{PICH} ".

- 1 17. A method according to claim 16 wherein the step of comparing comprises:
2 determining if the measured C/I_{PICH} is greater than the C/I_{PICH} threshold.
- 1 18. A method according to claim 10 wherein the step of determining comprises:
2 obtaining the quality indicator threshold, associated with the service
3 identifier, from a table in a memory.
- 1 19. A method according to claim 18 wherein the quality indicator threshold is a
2 signal-to-noise ratio (SNR) threshold and a data to pilot ratio (D2P).
- 1 20. A method according to claim 18 wherein the quality indicator threshold is a
2 pilot signal-to-noise ratio (C/I_{PICH}) threshold.
- 1 21. A method according to claim 10 further comprising the step of:
2 presenting a result of the step of comparing in a user interface.
- 1 22. A method according to claim 21 wherein the step of presenting comprises:
2 displaying a label associated with the service identifier; and
3 displaying an indicator indicating whether the calculated quality indicator
4 is less than the quality indicator threshold.
- 1 23. A method according to claim 21 further comprising the step of:
2 displaying an indicator indicating whether the calculated quality indicator
3 is greater than the quality indicator threshold.

- 1 24. A wireless communication device comprising:
2 a transceiver;
3 a controller coupled to the transceiver;
4 a user interface coupled to the controller; and
5 a memory, for storing a quality table mapping a service identifier to a
6 quality indicator, coupled to the controller.
- 1 25. A wireless communication device according to claim 24 wherein the quality
2 indicator comprises:
3 a signal-to-noise ratio (SNR) threshold.
- 1 26. A wireless communication device according to claim 25 wherein the quality
2 indicator further comprises.
3 a data to pilot ratio (D2P).
- 1 27. A wireless communication device according to claim 24 wherein the quality
2 indicator comprises:
3 a pilot signal-to-noise ratio (target C/I_{PICH}) threshold.